	Date ((Saathi)
-	Date/_ Hashing, Hash Maps, Collision & Resolution
	Hash Code, Compression Function.
,	and the second of the second o
S-1	Hashing to It refers to a process of generating a fixed size
	output from an input of variable size using the
	mathematical formulas Icnown on hash functions. This .
	techniques determines an index on location for the
- ×	istorage of on item in a dala structure.
	Sort Darie
	Basically we use I modify array data struiture
	because array: provide O(1) time compexity to
	fetch data, we O con also use BST's which provide
<u>(, , , , , , , , , , , , , , , , , , , </u>	logen) in insertion, deletion or fetching.
Number	hasting probens.
	But in Armay we have limited memory in intimains we can allocate
	mand we can allocate:
	global type array we can a allocate.
3.4	(107) seize
d.	So if our size of hash array exceeds the
. 14 16	0. 10 10 94
	Hoshing Methods.
	Division Wethods.
2	Polding Methods ? Not so imp-
- 3) rated & guare interproduce
4	Multiplecation Methods.
	In Division Methods. we use to 10 4 operation
	to store the data in the location options.
	This is where chaining comes in & collisions.
	1021 par have data.
See Contract	Example & we have 121 21 3 42 [10. 1. 2. 181] 131 Page No
	P 21. 8 , 42
	Page No.

Caath 212 5120 Vineam Herein we are doing sequential chaining ias cue l'enouis. I the sequential chaining is in sorted order we can capty birang beanch or lupperbound-lower bound) to find frequency in (login). To Now is collisionalis what if the data entires 3, 10, 20, 30 0 -> x

1 -> x

2 8 (10 9) 10 = 8. 1 3 R 8 > 0 > 10,20,30, lette 10/0 allow we will cover collisions Kexolution win later part/pages. Nonde de activité en beauxe it can be done Jusing ASCII values and ASCII have 0 > 127 decime volues, which are easy to convert le store into index. -> Values, 127 J> Key 0 Page No.

